

4th Symposium of the IMSUT & RCAST Global COE

Cutting Edge of Human Genome Science

Friday July 15 , 2011 9:30-17:45

Auditorium of The Institute of Medical Science (IMS), The University of Tokyo (UT)

Free Admission

Speakers

Hiroyuki Aburatani (Research Center for Advanced Science and Technology, UT)

Ryan Lister (Salk Institute for Biological Studies, USA)

Koichi Matsuda (IMSUT)

Shinichi Morishita (Graduate School of Frontier Sciences, UT)

Masao Nagasaki (IMSUT)

Hidewaki Nakagawa (Center for Genomic Medicine, RIKEN)

Binay Panda (Institute of Bioinformatics & Applied Biotechnology, INDIA)

Jay Shendure (University of Washington, USA)

Sumio Sugano (Graduate School of Frontier Sciences, UT)

Stephen Turner (Pacific Biosciences, Inc., USA)

Supported by the Global COE Programs

**“Center of Education and Research for the Advanced
Genome-Based Medicine” and**

“Deciphering Biosphere from Genome Big Bang”

Access to IMSUT

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Organizing Committee

Hiroyuki Aburatani (RCAST, UT)

Yoichi Furukawa (IMSUT)

Satoru Miyano (IMSUT)

Shinichi Morishita (GSFS, UT)

Kenta Nakai (IMSUT)

Yusuke Nakamura (IMSUT)

P R O G R A M

- 9 : 30—9 : 35 **Opening Remarks**
Hiroshi Kiyono
[Dean /Professor, The Institute of Medical Science, The University of Tokyo (IMSUT)]
- 9 : 35—12 : 05 Human Genome and Diseases**
Chair: Kenta Nakai [Professor, IMSUT]
- 9 : 35—10 : 05 **The Impacts of Common Genetic Variations on Cancer Susceptibility**
Koichi Matsuda [Associate Professor, IMSUT]
- 10 : 05—10 : 45 **Next-Generation Human Genetics**
Jay Shendure [Associate Professor, University of Washington, USA]
- 10 : 45—11 : 25 **Robust Estimation of Inheritance Blocks in Human Genomes**
Shinichi Morishita [Professor, Graduate School of Frontier Sciences (GSFS), UT]
- 11 : 25—12 : 05 **Discovery of Novel Genetic Signatures from Tongue Squamous Cell Carcinoma along with Matched Potentially Malignant Lesions Using Next-Generation Sequencing**
Binay Panda [Head of Ganit Labs, Institute of Bioinformatics & Applied Biotechnology, INDIA]
- 12 : 05—13 : 30 **Lunch**
- 13 : 30—15 : 20 Cancer Genome and Development**
Chair: Yoichi Furukawa [Professor, IMSUT]
- 13 : 30—14 : 10 **Whole Genome Sequencing for Cancer Genome**
Hidewaki Nakagawa [Team Leader, Center for Genomic Medicine, RIKEN]
- 14 : 10—14 : 40 **Data Management and Bioinformatics of Next Generation Sequencing Data on the Massive Parallel Supercomputer at Human Genome Center**
Masao Nagasaki [Associate Professor, IMSUT]
- 14 : 40—15 : 20 **Tongue Twisters and Picture Puzzles: The Advantages of Single Molecule Real Time Sequencing in Difficult Assembly Problems**
Stephen Turner [Chief Technology Officer, Pacific Biosciences, Inc., USA]
- 15 : 20—15 : 40 **Coffee Break**
- 15 : 40—17 : 40 Epigenome and Transcriptome**
Chair: Satoru Miyano [Professor, IMSUT]
- 15 : 40—16 : 20 **Transcriptome Analysis Using Second Generation Sequencers**
Sumio Sugano [Professor, GSFS, UT]
- 16 : 20—17 : 00 **Epigenomics People and Pluripotency**
Ryan Lister [Postdoctoral Researcher, The Salk Institute for Biological Studies, USA]
- 17 : 00—17 : 40 **Long-Range Genomic Interaction Mediated by Tumor Suppressor p53**
Hiroyuki Aburatani [Professor, Research Center for Advanced Science and Technology, UT]
- 17 : 40—17 : 45 **Closing Remarks**
Shinichi Morishita [Professor, GSFS, UT]